

Device Modeling Report

COMPONENTS: CAPACITOR/Electrolytic
PART NUMBER: TC04RKME50VB1
MANUFACTURER=Nippon Chemi-con Corporation



Bee Technologies Inc.

Theory: Auto Balancing Bridge Method

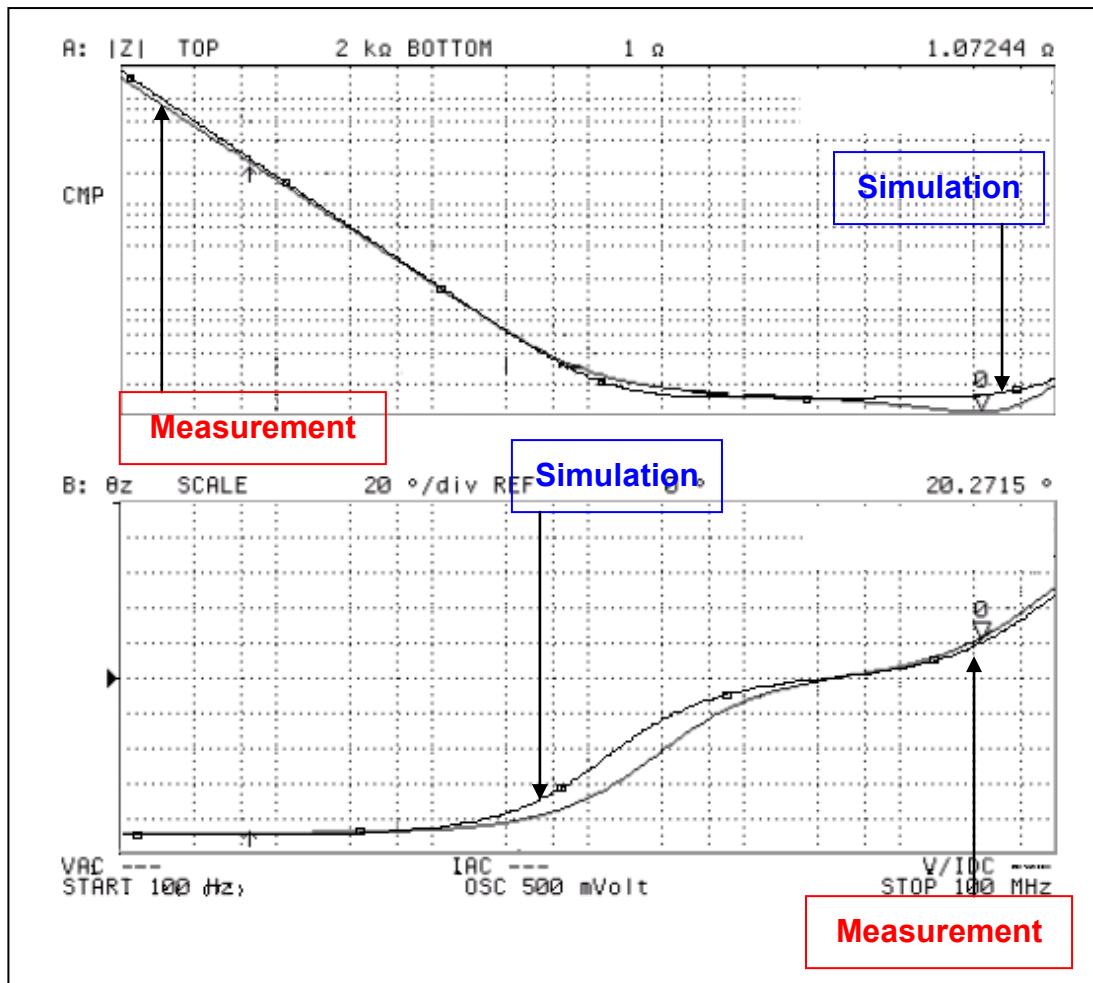
Optimization of Simulation

Range of adjustment Frequency:100Hz to100M(Hz)

Frequency vs.|Z| and Frequency vs. θ_z Characteristic

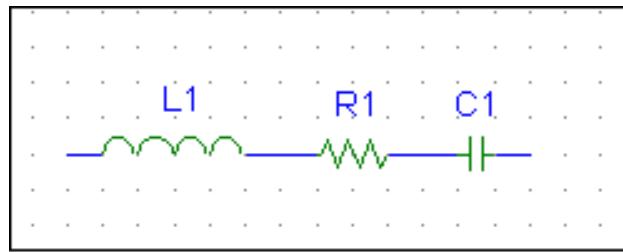
Attention)

Please use SPICE MODEL within the range from 100Hz to 100M(Hz)



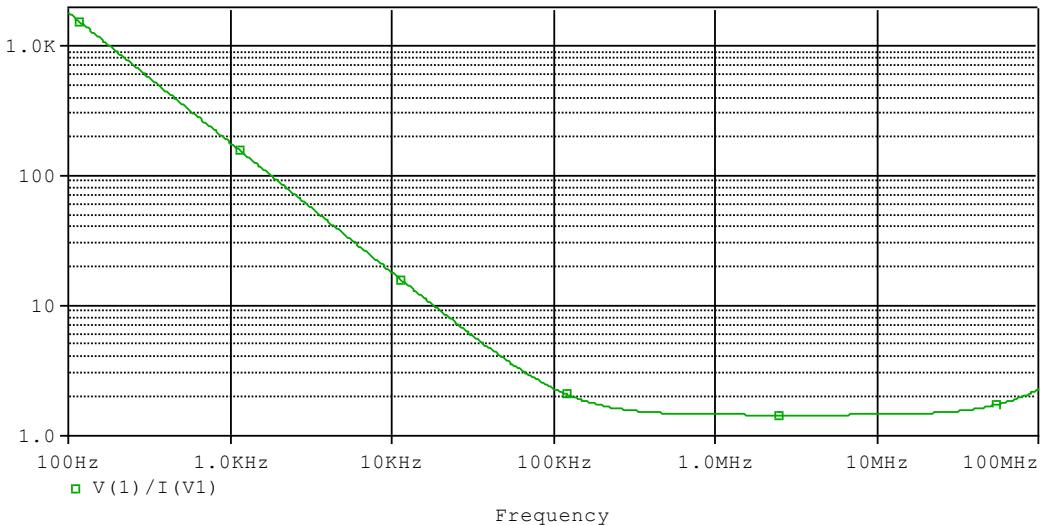
L1	
C1	
R1	

Equivalent circuit

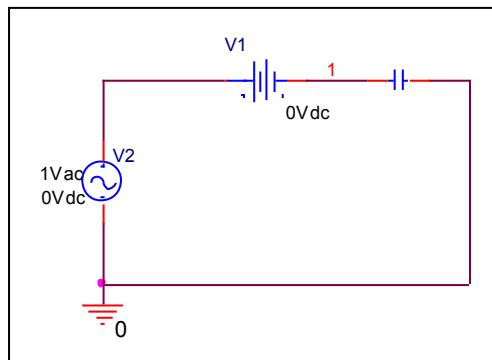


Frequency vs. IZI Characteristic

Circuit Simulation result



Evaluation Circuit



Simulation result

Frequency (Hz)	IZI (ohm) :Measurement	IZI (ohm) :Simulation	% Error
100	1670.000	1814.800	8.671
1K	173.000	180.765	4.488
10K	18.050	18.205	0.859
100K	2.390	2.303	-3.628
1M	1.470	1.459	-0.728
10M	1.350	1.459	8.044
100M	2.000	2.190	9.500